

BASF Corporation

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MR 5573

8EHQ-0898-14243

Document Processing Center (TS-790)  
Attention: (8e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460

**Contains No CBI**

Ladies and Gentlemen:

Subject: Notice in Accordance to TSCA Section 8(e) - Results of a  
ecotoxicity study with Plurafac LF 405 (CAS No. 69227-21-0).

BASF Corporation is submitting a Material Safety Data Sheet indicating the results of an ecotoxicity study in algae with Plurafac LF 405 (CAS No. 69227-21-0). Plurafac LF 405 is a fatty alcohol alkoxylate. The study was conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

**The following results were obtained:**

EC<sub>50</sub> (72 hr) = 0.1 - 1.0 mg/l

Although BASF Corporation does not feel that this information presents a substantial risk to health or environment, it is being submitted under Section 8(e) of TSCA. Any reports or additional information that we receive will be forwarded to the Agency and Material Safety Data Sheets will be updated with this preliminary information.

If you have any questions, please feel free to call me at (734) 324-6207.

Very Truly Yours,

BASF Corporation



Edward J. Kerfoot, Ph.D.  
Director, Toxicology and Product Regulations

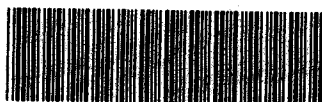


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**Safety data sheet**  
according to 91/155/EECBASF Safety data sheet  
Date / revised: 27.05.1997  
Product: PLURAFAC<sup>®</sup> LF 405Page 1 of 4  
ES 00303-A-TS (D/E)  
version 6.00

(Print date: 17.06.1998)

**1. Substance/preparation and company name**PLURAFAC<sup>®</sup> LF 405Company:BASF Aktiengesellschaft  
Unternehmensbereich Spezialchemikalien  
D-67056 Ludwigshafen  
Tel.: 0621-60-92476Emergency information:BASF works fire brigade Ludwigshafen  
Tel.: 0621-60-43333

Fax: 0621-60-92664

**2. Composition/information on ingredients**Chemical nature

Fatty alcohol alkoxylate and water

Hazardous ingredientsAliphatic alcohols, C12-18, largely linear, ethoxylated, propoxylated  
Content: 95 % weight (approx.) Hazard symbol: Xi  
EINECS-No. - R-phrases: 36/38

( polymer; starting materials listed in: EINECS )

**3. Possible hazards**Critical hazards to man and the environment:  
R36/38 - Irritating to eyes and skin.**4. First aid measures**General advice:

Immediately remove contaminated clothing.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink plenty of water, summon physician.

Note to physician:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

**5. Fire fighting measures**Suitable extinguishing media: water, carbon dioxide (CO<sub>2</sub>), foam, dry extinguishing mediaThe following can be given off in a fire: gases/vapours.  
The degree of risk is governed by the burning substance and the fire conditions.Special protective equipment:

In case of fire, wear a self contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with local regulations.

## 6. Accidental release measures

### Personal precautions:

Pick up immediately as product renders floors slippery.  
Hand protection, eye protection.

### Environmental precautions:

Do not discharge product into natural waters without pretreatment (biological treatment plant).

### Methods for cleaning up:

Contain with absorbent material and dispose.

## 7. Handling and storage

### Handling:

No special measures necessary.

### Protection against fire and explosion:

No special measures necessary.

### Storage:

The product is hygroscopic. Containers should be stored tightly sealed in a cool and dry place.

## 8. Exposure controls and personal protection

Additional information on the lay-out of technical plant  
(see section 7)

### Personal protective equipment

Hand protection:  
protective gloves

Eye protection:  
goggles

General safety and hygiene measures:

The usual precautions for the handling of chemicals must be observed.

## 9. Physical and chemical properties

Form: liquid  
Colour: colourless  
Odour: product specific

Change in physical state  
solidification temperature

approx. -20 °C

Flash point:

> 100 °C

(DIN 51 758)

Ignition temperature:

> 200 °C

(DIN 51 794)

Density:

(23 °C)

approx. 0.97 g/cm<sup>3</sup>

Solubility in water: partly soluble, passes through maximum viscosity level

Solubility in other solvents: soluble in: petroleum spirit, ethanol, propan-2-ol

pH value: (at 50 g/l, 20°C)

approx. 7

Viscosity:

(25 °C)

approx. 70 mPa.s

(Brookfield)

## 10. Stability and reactivity

Hazardous reactions:  
None provided product is correctly processed.

Hazardous decomposition products:  
None provided product is correctly processed.

## 11. Toxicological information

### Acute toxicity

The statements are based on the properties of the the individual components.

LD50/oral/rat: >2000 mg/kg ✓

Acute inhalation hazard (rat; test results depending on toxicity and volatility):  
No mortality after 7 h exposure in a highly enriched and/or saturated atmosphere at 20°C. ✓

Primary skin irritation/rabbit/Draize test: irritant ✓  
Primary mucous membrane irritation/rabbits' eyes/Draize test: irritant ✓

## 12. Ecological information

The statements are based on the properties of the the individual components.

### Elimination information

Degree of elimination: >=90% BIAS (on average) ✓  
in accordance with EC Directive 73/404

### Behaviour and environmental fate

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### Ecotoxic effects

Toxicity to daphnae (acute): ✓  
EC50 (48 h): 1-10mg/l

Toxicity to fish:  
LC50 (96 h): 1-10mg/l, Leuciscus idus ✓

Toxicity to algae: ✓  
EC50 (72 h): 0.1-1mg/l

### Further ecological information

AOX: This product contains no organically bound halogen.

## 13. Disposal considerations

Product:  
Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

Disposal code no. for unused product: 59402(Germany)

Contaminated packaging:  
Uncontaminated packs can be re-used.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

#### 14. Transport information

##### Land transport

ADR/RID

Warning panel

UN-No: 3082

Class: 9

Hazard-no: 90

Item number/letter: 11C

Substance no.: 3082

Description of the goods: Umweltgefaehrdender Stoff, fluessig, n.a.g.  
(enthaelt Fettalkoholalkoxylat).

Remarks:

##### Inland waterway transport

ADN/ADNR

Class: 9

Item number/letter: 11C

Description of the goods: Umweltgefaehrdender Stoff, fluessig, n.a.g.  
(enthaelt Fettalkoholalkoxylat).

Remarks:

#### 15. Regulatory information

##### Labelling according to EEC Directives

Xi - Irritant

R36/38 - Irritating to eyes and skin.

##### National legislation/regulations

Water hazard class: WGK 2 (Germany)

#### 16. Other information

n.a. = not applicable

n.d.a. = no data available

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.